15 Years & Beyond: Building the Information Society of the Future

Markus Pikart
UNECE Trade Division
Markus.Pikart@un.org
UNECE
August 2020
Simplification and automation of international trade procedures

- eBusiness standards
  - Code used in international trade
  - UN/EDIFACT & Core Component Library (ISO 15000)
  - Semantics & data models

- Policy recommendations on best practices
Cooperation / Collaboration

MoU on electronic business between IEC, ISO, ITU and UN/ECE

The International Telecommunication Union signed on 24 March 2000 a Memorandum of Understanding on electronic business, joining three leading international standards-setting organizations already party to the MoU, namely the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO), the United Nations Economic Commission for Europe (UNECE). In addition to the four signatories, the MoU is open to other international, regional, governmental, industry and consumer organizations whose core mission involves standards-setting, as registered international user groups. CALS® International and NATO CALS were the initial user group participants. [ More ]
Insight and smart decision making: *Storage facilities in the next port are not sufficient*

Information is linked to logic events in the supply chain: *Goods arrived in port and are ready to be cleared.*

Interpretation of data: *Who, What, When, Where, How many?*

Facts are recorded in structured data: *DeliveryDate*
Moving up the pyramid: WSIS Geneva 2003

- Data Management: Know what
  - EDIFACT Messages
  - Code lists
  - Improved trade documents

Wisdom

Knowledge

Information

Data
Moving up the pyramid: WSIS Tunis 2005

- Wisdom
- Knowledge
- Information
- Data

Data Management: Know what
- XML Messages
- Single Window
Moving up the pyramid: WSIS+10

Knowledge Management: Why and how
- Data Models
- Shift from syntax to semantics
- Collaborative Platforms

Data Management: Know what
- XML Messages
- Single Window
- EDIFACT Messages
- Code lists

Knowledge

Wisdom

Information

Data
Trade Information Management in 2020: Where are we now?

Knowledge Management:
- Why and how
  - Shared management of information and supply chain processes
  - Authentication and access to data

Data Management: Know what
- XML Messages
- Single Window
- EDIFACT Messages
- Code lists
Information economy Covid-19 and beyond

Knowledge Management: Why and how
- Building global collaborative networks
- Resilient, adaptive supply chains
- Circular economy

Data Management: Know what
- XML Messages
- Single Window
- EDIFACT Messages
- Code lists
UNECE current R&D projects

- Real Time Smart Container (IoT)
- Traceability for sustainable textile industry (BC)
- Digital Transport Corridors (BC, IoT)
- Zero Food Loss (Collaborative Platforms)
- Control of international trade in wildlife (Cloud, Risk Management)
- Fisheries information exchange to fight IUU fishing (Geolocation, Big Data)
Thank you

Markus Pikart
markus.pikart@un.org
UNECE
August 2020